

Serial No. 10/736,650
Docket No. SUPERCON 23
Amendment B UNDER RULE 116
and Telephone Interview Summary

AMENDMENTS TO THE CLAIMS:

Kindly amend claim 1 as shown below.

This listing of claims will replace all prior versions and listings of claims in the
Application:

Claim 1 (currently amended): A process for making superconducting material useful
for forming electrolytic devices comprising the steps of:

- a) establishing multiple niobium or tantalum components in a primary billet
of a ductile material;
- b) working the primary billet to a series of reduction steps to form said
niobium or tantalum components into elongated elements;
- c) cutting the elongated elements from step b) and forming the cut elements
into a stack around a metal core;
- d) surrounding the stack of cut and stacked elements from step c) with a
porous confining layer to form a secondary billet;
- e) working the secondary billet from step d) through a series of reduction
steps[;], including ~~twisting and rolling~~, to flatten the elements into thin ribbon with an
Aspect Ratio of greater than 5:1;
- f) cutting the worked billet from step e) into sections; and
- g) leaching the core and sheath at least in part.

Claim 2 (original): The process of claim 1, wherein said leaching is in an acid leach.

HAYES SOLOWAY P.C.
3450 E. SUNRISE DRIVE
SUITE 140
TUCSON, AZ 85718
TEL. 520.882.7623
FAX. 520.882.7643

175 CANAL STREET
MANCHESTER, NH 03101
TEL. 603.668.1400
FAX. 603.668.8567

Serial No. 10/736,650
Docket No. SUPERCON 23
Amendment B UNDER RULE 116
and Telephone Interview Summary

Claim 3 (original): The process of claim 1, wherein said leaching step is in a liquid metal bath.

Claim 4 (original): The process of claim 3, wherein said liquid metal bath comprises molten magnesium.

Claim 5 (previously presented): The process of claim 1, wherein said porous confining layer contains a gap that renders the confining layer circumferentially discontinuous, but overlapping.

Claim 6 (previously presented): The process of claim 1, wherein said porous confining layer contains a gap that renders the confining layer circumferentially discontinuous.

Claim 7 (original): The process of claim 1, wherein several separate segments are used to construct a multi anode capacitor assembly.

Claim 8 (original): An electronic device made from the superconductor material formed by the process of claim 1.

Claim 9 (original): An electrolytic capacitor made from the superconductor material formed by the process of claim 1.

Claim 10 (previously presented): The process of claim 1, wherein said metal core consists of a single metal rod.

Claim 11 (previously presented): The process of claim 10, wherein said single metal rod has a cross-sectional area not exceeding 20% of said secondary billet before working.

HAYES SOLOWAY P.C.
3450 E. SUNRISE DRIVE
SUITE 140
TUCSON, AZ 85718
TEL. 520.882.7623
FAX. 520.882.7643

175 CANAL STREET
MANCHESTER, NH 03101
TEL. 603.668.1400
FAX. 603.668.8567

Serial No. 10/736,650
Docket No. SUPERCON 23
Amendment B UNDER RULE 116
and Telephone Interview Summary

Claim 12 (previously presented): The process of claim 1, wherein the Aspect Ratio is

40:1.

HAYES SOLOWAY P.C.
3450 E. SUNRISE DRIVE
SUITE 140
TUCSON, AZ 85718
TEL. 520.882.7623
FAX. 520.882.7643

175 CANAL STREET
MANCHESTER, NH 03101
TEL. 603.668.1400
FAX. 603.668.8567